

22/7/23 (Item 6 from file: 2)

DIALOG(R) File 2:INSPEC

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5484042 INSPEC Abstract Number: B9703-6140C-083, C9703-5260B-040

Title: A model-based complex background gesture recognition system

Author(s): Chung-Lin Huang; Ming-Shan Wu

Author Affiliation: Dept. of Electr. Eng., Nat. Tsing Hua Univ., Hsinchu, Taiwan

Conference Title: 1996 IEEE International Conference on Systems, Man and Cybernetics. Information Intelligence and Systems (Cat. No.96CH35929)
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Conference Date: 14-17 Oct. 1996 Conference Location: Beijing, China

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T); Experimental (X)

Abstract: In this paper, a hand gesture recognition system is introduced to recognize the gestures of sequential digital number in a complex background. We present a method which uses the flexible models to describe the hand shapes and its variability. First, we present the hand shapes in the training set by the manually labeled points located on the boundary of the objects. Next, we align the all training shapes for examining the statistics of the coordinates of the model points over the training set. This flexible model can only fit the new hand examples which are similar to the shapes of the corresponding training set. From the extracted hand features, we can judge which state it belong to, and present the entire continuous gesture by a state sequence. In the experiments, we illustrate that the system can recognize the gestures of both single digital number and sequential digital number. (17 Refs)

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5467365 INSPEC Abstract Number: A9704-9530-027

Title: Gravitational microlensing by random motion of stars: movie and analysis of light curves

Author(s): Wambsganss, J.; Kundic, T.

Author Affiliation: Central Inst. for Astrophys., Potsdam, Germany

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Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Theoretical (T)

Abstract: We present a quantitative analysis of the effect of microlensing caused by random motion of individual stars in a galaxy lensing a background quasar. We calculate a large number of magnification patterns for positions of the stars slightly offset from one frame to the next, and thus obtain light curves for fixed quasar and galaxy